INTERNATIONAL SEARCH REPORT

Internatio pplication No PCT/EP 02/13177

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B60T7/10 B60T7/06

B60T11/08

G05G7/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched (classification system followed by classification symbols)} \\ IPC & 7 & B60T & G05G & B60K \\ \end{array}$

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

Category °	Citation of document, with Indication, where appropriate, of the	relevant passages	Relevant to claim No.
X	US 4 989 474 A (CICOTTE EDMOND I 5 February 1991 (1991-02-05) column 4, line 32 -column 5, lin figure 2 column 7, line 44 -column 8, lin	ne 3;	1,7,8, 14,18-20
X	US 5 460 061 A (REDDING HARRY L 24 October 1995 (1995-10-24) column 3, line 42 -column 4, lin column 5, line 31 - line 44		1,5-7, 14, 18-20, 24,25
A	FR-2 739-947-A-(RENAULT) 18 April 1997 (1997-04-18) abstract; figures 1,2	-/	1,24,25
X Furt	her documents are listed in the continuation of box C.	χ Patent family members are listed	n annex.
"A" docume consic "E" earlier of filing of "L" docume which citatio "O" docume other of "P" docume later ti	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	 "T" later document published after the inte or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cannot be considered to involve an indocument is combined with one or ments, such combination being obvious the art. "&" document member of the same patent 	the application but early underlying the slaimed invention to considered to cument is taken alone slaimed invention ventive step when the one other such docuus to a person skilled
Date of the	actual completion of the international search	Date of mailing of the international sea	rch report
3	1 March 2004	06/04/2004	
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Ibáñez Lajo, M	

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Internation pplication No
PCT/EP 02-13177

C./Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	101/21 0	3177
Category °	Citation of document, with Indication, where appropriate, of the relevant passages		Relevant to claim No.
4	EP 0 410 815 A (FUJI KIKO KK) 30 January 1991 (1991-01-30) column 3, line 41 - line 53; figure 1		1
1	EP 1 251 417 A (DELPHI TECH INC) 23 October 2002 (2002-10-23) abstract; figure 1	1	
\	US 5 832 784 A (CZOPEK BRIAN J ET AL) 10 November 1998 (1998-11-10) column 3, line 62 -column 5, line 8; figures 2,3	1	
			
	,		
	·		

INTERNATIONAL SEARCH REPORT

Internation Populcation No
PCT/EP 02/13177

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4989474	Α,	05-02-1991	CA	2055448 A	\1	02-11-1990
			DE	69022049 D		05-10-1995
			DE		2	07-03-1996
			ΕP	0471791 A	_	26-02-1992
			JP	4505063 T		03-09-1992
			WO	9013862 A	\1	15-11-1990
			US	5078024 A		07-01-1992
			CA	1289039 C		17-09-1991
			DE	3786123 D	1	15-07-1993
			DE	3786123 T	2	14-10-1993
			EP	0256466 A	2	24-02-1988
			JP	1925412 C	,	25-04-1995
		•	JP	6040292 B	}	25-05-1994
			JP	63049528 A	1	02-03-1988
			MX	160220 A		09-01-1990
			US	4875385 A	\	24-10-1989
US 5460061 ·	Α	24-10-1995	MO	··· 9508145·· A	1	23-03-1995
FR 2739947	A	18-04-1997	FR	2739947 A	\1	18-04 - 1997
EP 0410815	A	30-01-1991	JP	3030116 U)	25-03 - 1991
			JP	3030117 U	J	25-03-1991
			EP	0410815 A	1	30-01-1991
			US	5086663 A	\	11-02-1992
EP 1251417	Α	23-10-2002	US	2002148322 A	1	17-10-2002
			EP	1251417 A		23-10-2002
US 5832784	A	10-11-1998	NONE			